

# UHF RFID Integrated Reader

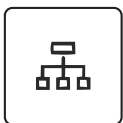
## TW-UR9000



TW-UR9000 is a long range, all in one UHF RFID reader with a built in circular polarized antenna. It reads tags from up to 20 metres away and captures more than 400 tags per second, so it suits vehicle identification at gates and parking entries. It connects over RS-232 & Wiegand (TCP/IP Optional), which lets it plug straight into access controllers and existing Wiegand systems.

The waterproof housing is built for all weather outdoor use.

### Features



TCP/IP  
Connectivity  
(Optional)



Up to  
20mtr. Reading  
Sensitivity



Vehicle  
Access  
Integration



0~33dBm  
Output  
Power

## Key features

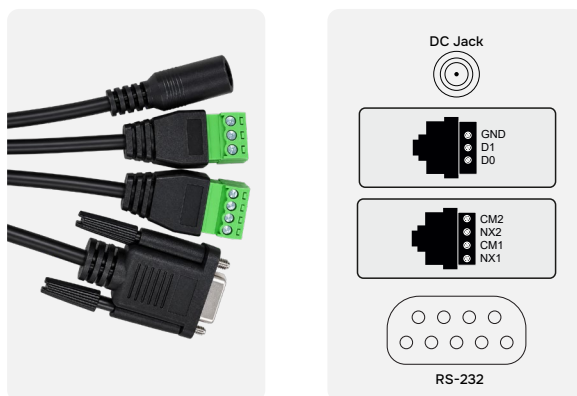
- Extended range: Reads tags from 0 to 20 m, depending on the tag and environment
- High speed: Captures more than 400 tags per second, reliable even with moving vehicles
- Communication Interfaces: RS-232 & Wiegand (TCP/IP Optional) outputs for direct connection to access control panels and barrier controllers.
- Two working modes: Active (default), Answer (command)
- Global standard: EPC global UHF Class 1 Gen 2 (18000-6C) protocol support
- Rugged build: Waterproof ABS housing, rated for -20 °C to +65 °C
- Always on: A hardware watchdog monitors the CPU for stable, uninterrupted operation
- Low power: Standby current of 80 mA or less at 12 V
- Smart feedback: Green & Red status LED and a buzzer that can be muted in software
- Easy integration: 2 GPIO output and a full SDK with demo source code and protocol documentation

## Technical Specification

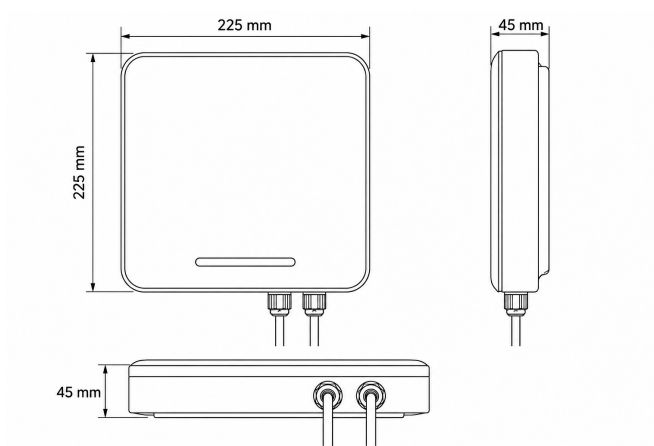
| Frequency             | 865 to 868 MHz<br>(other bands through software)           |
|-----------------------|------------------------------------------------------------|
| Protocol              | EPC global UHF Class 1 Gen 2 (18000-6C)                    |
| Antenna               | Circular polarization                                      |
| Output power          | 0 to 33 dBm, adjustable in 1 dBm steps (±1 dB accuracy)    |
| Receive sensitivity   | < -75 dBm                                                  |
| Read / write distance | 0 to 20 m / 0 to 2.5 m (depending on label on environment) |
| Inventory speed       | > 400 tags/second                                          |
| Interfaces            | RS-232 & Wiegand (TCP/IP Optional)                         |
| Baud rate             | 115200 bps (default)                                       |
| GPIO                  | 2 output                                                   |
| Power supply          | DC 12 to 24V                                               |
| Current               | Standby ≤ 80 mA, maximum ≤ 800 mA @ 12 V                   |
| Operating temperature | -20°C to +65°C                                             |
| Storage temperature   | -40 °C to +85 °C                                           |

|                    |                              |
|--------------------|------------------------------|
| Operating Humidity | 5% to 95% RH, non condensing |
| Dimensions         | 225 × 225 × 45 mm            |
| Housing            | ABS, waterproof              |

## Wiring Instructions



## Dimension Drawing



## Application



Parking



Logistics



Warehousing



Retail



Transportation



Tolling

**Disclaimer :** All pictures shown are for illustration purposes only. The actual product and color may vary due to product enhancement. The brief specification is mentioned and may change without prior notice. Please consult us before placing any order.